## TITLE OF THE INVENTION

ELEVATOR SYSTEM WITH ONE OR MORE ELEVATOR CARS MOVING INDEPENDENTLY IN A SAME SHAFT

## 5 CROSS REFERENCE TO RELATED APPLICATION

This application is a Continuation of co-pending PCT International Application No. PCT/FI02/00816 filed on October 21, 2002, which designated the United States, and on which priority is claimed under 35 U.S.C. § 120, the entire 10 contents of which are hereby incorporated by reference.

## BACKGROUND OF THE INVENTION Field of the Invention

The present invention relates to an elevator system es-15 pecially for high-rise multi-floor buildings where a passenger who wants to get to a floor in the top part has to change to an elevator that mainly serves the topmost floors only.

In very tall buildings, it is generally economically not possible to provide elevator shafts extending through the entire height of the building from the bottom floor to the top floor so that each elevator could serve all floors. For this reason, elevators are traditionally divided into different zones in the vertical direction, of which the lowest zone extends from the entrance floor, hereinafter called ground 25 floor, to a floor at a given height, this zone being called low-rise zone, while the highest zone, called high-rise zone, extends from a given transfer floor, a so-called sky lobby floor to the topmost floors of the building. Between these zones, depending on the height of the building, there may be one or more intermediate zones, so-called mid-rise zones serving intermediate floors in the building from their respective transfer floors. The problem is generally that each zone is served by only one elevator in one elevator shaft, so it is necessary to provide for each zone and each elevator car a separate shaft extending from the ground floor of the

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